



Agenda Item 5A: Other business

Comprehensive Air Traffic System Global Council (CATS Global Council)

(Presented by CANSO)

SUMMARY	
<p>The Comprehensive Air Traffic System Global Council (CATS Global Council) is a unique forum that brings together leaders from across the manned and unmanned aviation industries together with service and technology providers. The CATS Global Council understands that we need to act collectively and with a sense of urgency to jointly mobilize and build a comprehensive air transport system to meet the evolving and future needs of the industry.</p> <p>The Global CATS Council undertook the critical activity of developing a roadmap, setting out the key activities along the way to turn the vision into reality. The CATS vision roadmap includes technological and regulatory developments, as well as political, economic, social and environmental aspects.</p>	
<p>References:</p> <ul style="list-style-type: none">- Global Plan for Aviation Security (Doc 10118)- Global Aviation Safety Plan (GASP) (Doc 10004)- Global Air Navigation Plan (Doc 9750)- futureskyvision.com- CATS-Global-Council_Vision.pdf- canso.fra1.digitaloceanspaces.com	
<p>ICAO Strategic Objectives:</p>	<p>This working paper is related to strategic safety objectives; air navigation capacity and efficiency; security and facilitation; air transport economic development and environmental protection.</p>

1. Introduction

1.1 The Skies of the Future Roadmap, developed by the Global CATS Council, provides a logical and ambitious path towards the CATS vision of creating a global airspace that is safe, fair, intelligent and interoperable, leveraging design, technologies and services revolutionized to empower mobility and sustainable global prosperity.

1.2 The roadmap is a living document whose progress is the industry responsibility, with ICAO and States direct participation. It will be used to stimulate the industry, and enlist and engage stakeholders in the CATS vision for our skies of the future and the activities necessary to achieve the vision. The roadmap not only focuses on technical developments, but also addresses political, economic, legal, social, operational and environmental aspects, which are all critical for progress.

1.3 The roadmap, built on seven basic building blocks, is composed of three layers: long-term goals, intermediate milestones and final actions. For each of the seven basic building blocks that underpin the vision, two long-term goals have been identified:

Building Block 1 - Service and Service Delivery Objectives:

- Improved performance through automation
- Harmonized service delivery

Building block 2 - Technology and digitization objectives:

- Harmonized, flexible and efficient systems
- Digital collaboration

Building Block 3 - Safety Objectives and Regulations:

- Predictive approach in risk management
- Solid quality and safety culture

Building Block 4 - Environmental Sustainability Goals and Social Effects:

- Towards net zero emissions (zero carbon)
- Management of environmental sustainability and social effects

Building Block 5 - Airspace Classification and Design Objectives:

- Integrated airspace
- Infrastructures and multimodal transport network integrated and connected

Building Block 6 - Data and Security Goals:

- Ecosystem empowered by data
- Security by design

Building block 7 - Objectives of people, organization and human talent:

- Thriving airspace management community
- High performance teams

For each long-term goal, the roadmap identifies the key milestones and actions that need to occur to achieve it. More than 70 milestones and 100 actions have been identified.

2. Discussion

2.1 The Global CATS Council works hard to turn the vision into a reality, and the industry is responsible for most of the actions and activities identified in the roadmap. However, ICAO is uniquely and singularly positioned to contribute important elements and drive global harmonization, which is a key pillar of the Comprehensive Air Traffic System (CATS) vision.

2.2 Therefore, although the industry is prepared to contribute, the Global CATS Council understands that ICAO is best positioned to lead actions related to the following activities identified as part of the roadmap that the Global CATS Council has developed:

- The reference framework development for the sovereign airspace decentralized administration, addressing the responsibility, security, regulatory, political and financial aspects.
- A global service model development in high altitude airspace that enables full integration and review of existing airspace classes to ensure that they remain fit for purpose in a future reality in which airspace will necessarily will become a more unified, flexible and dynamic environment.
- The progress of the global electronic visibility standards guide aimed at air-to-air and air-to-ground visibility.
- Integration into GASP practices promoting proactive risk management for new service delivery strategic and tactical models.

Evolving existing competency models into changing roles and new positions that our future industry will need, enabling the delivery of performance-based training programs and creating opportunities to use objective data and improve monitoring and evaluation.

- The alignment with the global air navigation plan of the main objectives and pertinent/relevant key milestones identified within the roadmap.

2.3 The industry-wide coalition that is represented by the Global CATS Council is well positioned to move towards other key actions on the vision roadmap and will drive the development of a New Concept of Global Operations (CONOPS) designed to the new era of traffic control, an integrated ATM-UTM roadmap, (including a CONOPS for a mixed ATM and UTM mode), to chart a path towards full convergence.

2.4 The Global CATS Council is made up of more than 70 Air Navigation Service Providers (ANSPs), organizations, industry, such as: ACI, Airbus, Airports Authority of India, Airservices Australia, Boeing, CAAS, CANSO, Commercial Spaceflight Federation (CSF), Cranfield University, DFS, DSNA, EANA, EASA, Emirates Airline, Eurocontrol, European Defense Agency (EDA), Eve Air Mobility, FAA, IATA, NASA, NATO, NATS, Nav Canada, SESAR 3 JU, Wing, among others .

2.5 The Global Air Navigation Plan provides an important vehicle for the harmonized progress of key enabling capabilities, and industry will drive the development of a technology roadmap to support the Global CATS Council's new global CONOPS. The outcome of that activity will be coordinated with the ICAO GANP study group to support major updates and evolutions to the Global Air Navigation Plan.

3. **Suggested action**

3.1 The Meeting is invited to:

- a) Take note of the information presented in the working paper;
- b) take note of the work developed by the Global CATS Council for a future vision of the sky in 2045 and a roadmap that describes the milestones and activities necessary to achieve it;
- c) the work of the Global CATS Council is shared for consideration of the South America Air Transport Vision development until the year 2035.